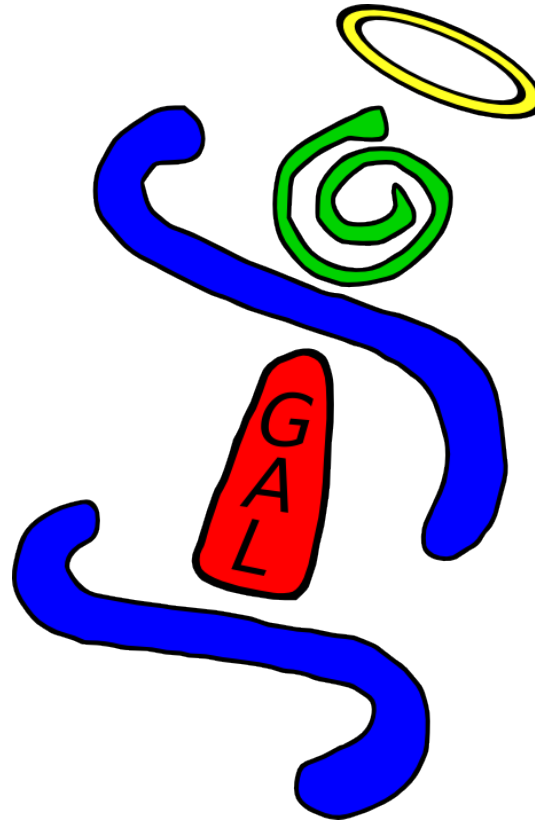


Guardian Angel Linux

SSI



<http://www.silicon-safari.com>



Silicon Safari, Inc.

Silicon-Safari Inc.

SSI

Guardian Angel NOVALUG Brief



November 2007



The logo features a stylized blue figure with a green head and a red body, resembling a guardian angel. The letters 'G', 'A', and 'L' are integrated into the figure's head, torso, and legs respectively.

Guardian Angel Linux

SSI

The New Portable OS and Secure Work Environment.

“Protecting your interests...”

Guardian Angel Linux (G.A.L.) is a portable full featured operating system with a complete set of applications including an office suite, web browser, email client, calendar/scheduler, instant messaging client, music player, anti-virus protection, VoIP clients, drawing applications, Personal Organizer Suite, Photo Viewing software all in a small portable profile.

G.A.L. was designed to run from a DVD-Rom or from a USB flash device without the user installing any actual components on the PC. How convenient is that? Now you don't have to lug around your laptop, you just boot a PC and you're off in your own, familiar and customized desktop environment.

How G.A.L. Works

SSI



**Standard
Computer**

+ **G.A.L.** **=**

**Secure
Computer**

G.A.L. secures files, communications, Internet Connectivity

What **G.A.L.** can do for you.

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- **Guardian Angel Linux** enhances and protects your digital life style!
- Excellent portability and availability
 - Provides a portable full featured operating system with a complete set of applications, utilities and encryption facilities to suit your needs.
 - Allows you to have all your settings, your bookmarks, your documents, all your computing needs, Always available- no matter where you are.
- Feel Secure
 - No trace of history data is left on the host computer. Additionally, if you use a secure tunnel proxy, your ISP can't see where you've surfed either.
 - In the event of the loss or theft of your USB flash drive, you can be assured that all your private data that was stored in the encrypted container is not going to be viewable by any prying eyes.
 - Safely store your current encrypted containers safely on-line.
 - Keep backups of your encrypted containers on-line.
 - Secures communications.



Why use Guardian Angel Linux?

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In today's world, Identity Theft, Government Domestic Spying and ISP monitoring, are very serious issues. When your data is freely accessible and sold to anyone who is willing to spend the money, Privacy is a REAL necessity. Anonymity is paramount to protect you from those who would steal your identity, misuse your personal data, your surfing habits, and your purchasing habits. In addition to criminal intentions, in the name, "law enforcement", "anti-terrorism", and similar excuses, your privacy is being exploited by many groups of people. DON'T STAND FOR IT!

- Thwart identity theft
- Thwart *illegal* surveillance and monitoring
- Keep your Anonymity
- Protect your Privacy



Philosophy

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The developers of **G.A.L.** are dedicated to protecting your privacy by supplying easy to use technologies which are industry standard and open source. We are strong believers in cross-platform compatibility as well. We understand that there are other Operating Systems and Computer Architectures in the world and we are dedicated to allowing usage and communication to those platforms. Sure you can protect yourself by locking yourself in a room and not communicating to anyone but what kind of life is that. Life is about communication- **G.A.L.** strives to make sure the communication is safe and secure.



The **G.A.L.** Advantage

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Open Source and Standards Based

- Linux Based
- Open Source
- Open and Industry Standard Based
- Peer Reviewed

Engineered Specifically for Protection

- Designed for Security
- Protects your Privacy
- Protects your Anonymity
- Protects using Shielding Technology

Convenience

- Tiny Physical Profile
- Portable
- Upgradeable
- Customizable/Configurable
- Flexible
- Easy to use
- Fast
- Modular

Compatible

- Windows and Mac compatible File Formats
- Available on Multiple Computer Architectures (Intel/Windows, PPC/Mac OS, Intel/Mac OS, Sun Sparc)
- More available in the future.



The **G.A.L.** Advantage: Open Source and Standards Based

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At the heart of **Guardian Angel Linux** is the Linux Kernel. That means **G.A.L.** has all of the advantages of Linux and the Open Source Community. Linux strives to implement Open and Industry Standards to assure compatibility. Additionally, since it is based on the outstanding “Linux Live” framework called SLAX (<http://www.slax.org>), it allows for easy drop-in upgrades and expansion, even on a DVD-Rom!! When new tools become available or new versions or fixes are needed, it is a snap to install them.

Linux is open to peer review by anyone. Open Source is one way to assure security, privacy and anonymity since the source code that provides those features are available for scrutiny. We do not believe in the security through obscurity model. We feel if the security can stand up to the planets best minds, then that's the type of security we want.



The **G.A.L.** Advantage: Engineered Specifically for Protection

SSI

- Privacy Protection
 - Through Openness
 - Through Security
 - By Making protective technologies easy, ubiquitous, and transparent.
 - Encryption for Files, Emails, and Communication Connections
 - Using Data Integrity and File Erasure
 - Problem Notification
 - Updates and Notifications of Security fixes and news
- Anonymity Protection
 - Through Anonymous Networks: Tor, I2P
- Protection using Shielding Technology
 - Firewall, Anti-Virus, Anti-Spam, Anti-Phishing and Anti-Tracking



Privacy Protection through Openness

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G.A.L. provides a secure environment to maximize privacy. The tools that are included are Industry standard Virtual Private Network tools, Encryption tools to safely and easily secure your private data, and tools to encrypt your email, documents, and VoIP and Teleconferencing calls.

Privacy Protection through Security

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Guardian Angel Linux, is designed to provide multiple ways of assuring file integrity. From providing tools to see if a file was received without being altered, to keeping temporary files only in memory instead of writing them to disk, to providing malicious code detection tools such as Virus scanning technology.

One aspect of Security not to be overlooked is secure file erasure. **G.A.L.** makes specific effort to assure files cannot be retrieved if desired. Included is a file erasure tool to deleted information with multiple passes of random patterns to prevent forensic recovery of sensitive data.

Security is kept high through the ability to keep software up to date and for there to be an excellent notification mechanism of security problems. Silicon Safari Inc. works hard to bring the latest and best security software to you.

Privacy Protection through easy to use, ubiquitous, and transparent technologies

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Utilizing protection technology can be complex and confusing. Protection should be ubiquitous and transparent but they rarely are. When you use a service such as Instant Messenger or E-Mail, you should not have to continuously jump through hoops to know that you are protected. **G.A.L.** makes specific effort to make these protective technologies easy, ubiquitous, and transparent.

By utilizing ubiquitous and transparent protection technologies, **G.A.L.** provides:

- a secure computing environment that is easy to use.
- encrypted and “plausibly deniable” areas to protect your private files (personal settings, cache area, bookmarks, & documents) from prying eyes.
- Industry standard encrypted facilities for E-Mail, Instant Messenger, Web Browsing, and File Storage, which gives you the ability to use the Internet in a securer and safer way.
- Anonymous facilities such as Tor and I2P, which gives you the protection you need to surf without being tracked by people with hostile intent as well as help facilitate freedom of expression.



Privacy Protection through Encryption

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- **Encryption** – scrambling your data, so only the people you want to see the data can see the data.
- **Encrypted and Plausibly Deniable File Storage** – protects your data from prying eyes.
- **Encrypted Email** – Allows email to be sent without anyone else seeing its contents, altering its contents covertly, and digital signatures to verify the sender's identity.
- **Encrypted Web Browsing** – Allows for encrypted communication to websites on the Internet such as e-commerce sites.
- **Encrypted Tunnels** – Allows for encrypted communication for general applications and specific ones like Voice Over IP (VoIP).
- **Encrypted and Plausibly Deniable IM communication.**



Security Through Data Integrity

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With **Guardian Angel Linux**, the operating system is loaded from a read only file system into memory. When you reboot, the system reverts to what should be from the protected read only archive. This is one of the ways that **G.A.L.** provides for file integrity.

G.A.L. also provides tools to see if a file was received without being altered (data checksum and digital signatures) as well as tools that detect malicious code that may alter or delete data. Even though **G.A.L.** is based on Linux and it is not vulnerable to the virus problems you see on other Operating System such as MS Windows and Macintosh OS, to reduce the chance of passing on infected files to colleagues, there are Anti-Virus tools available to scan files for malicious code that may have been downloaded or obtained through email.

One aspect of Security not to be overlooked is secure file erasure. **G.A.L.** makes specific effort to assure files cannot be retrieved if desired. Included is a file erasure tool to deleted information with multiple passes of random patterns to prevent forensic recovery of sensitive data.



Security Through Education and Notification

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Guardian Angel Linux, is not just an operating system. It is an experience and a community. One of the best defenses against Security problems is education and notification. To best protect yourself, we wish to empower you with tools as well as information. The more you know the better your decision making process can be.

Also, Security is kept high through the ability to easily keep software up to date and for there to be an excellent notification mechanism of security problems. The G.A.L. Blog and Forums are a great place to stay educated on current issues and problems. Also, we will send out email to alert you of potential problems and security issues.



Anonymity assurance through Anonymous Networks: Tor

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Using Tor protects you against a common form of Internet surveillance known as "traffic analysis." Traffic analysis can be used to infer who is talking to whom over a public network. Knowing the source and destination of your Internet traffic allows others to track your behavior and interests. This can impact your checkbook if, for example, an e-commerce site uses price discrimination based on your country or institution of origin. It can even threaten your job and physical safety by revealing who and where you are. For example, if you're traveling abroad and you connect to your employer's computers to check or send mail, you can inadvertently reveal your national origin and professional affiliation to anyone observing the network, even if the connection is encrypted.

Anonymity assurance through Anonymous Networks: I2P

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The I2P network is essentially a secure and anonymous IP layer to support secure and anonymous communication. People using I2P are in control of the trade-offs between anonymity, reliability, bandwidth usage, and latency. There is no central point in the network on which pressure can be exerted to compromise the integrity, security, or anonymity of the system. The network supports dynamic reconfiguration in response to various attacks, and has been designed to make use of additional resources as they become available. Of course, all aspects of the network are open and freely available.

Unlike many other anonymizing networks, I2P doesn't try to provide anonymity by hiding the originator of some communication and not the recipient, or the other way around. I2P is designed to allow peers using I2P to communicate with each other anonymously — both sender and recipient are unidentifiable to each other as well as to third parties. For example, today there are both in-I2P web sites (allowing anonymous publishing / hosting) as well as HTTP proxies to the normal web (allowing anonymous web browsing).



Protection Through Shielding Technology

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Shielding Technology is provided with **G.A.L.:**

- Firewall Technology – IPTables, GuardDog, etc.
- Anti-Virus – ClamAV and VirusHammer.
- Anti-Spam – Advertisement Blocker technology. E-mail spam blocking in future releases or as part of a service.
- Anti-SpyWare – hyper-visor detection in future releases.
- Anti-Phishing – Firefox browser plugins.
- Anti-Tracking – RAM based file systems, anonymous networks, encryption for persistence settings.



The **G.A.L.** Advantage: Convenience

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G.A.L. was developed with specific goals in mind. These design goals include: a Tiny Physical Profile, Security and Anonymity, Portable, Upgradeable, Customizable/Configurable, Flexible, Compatible, Easy to Use, Fast, and Modular. We felt it very important to achieve a maximum amount functionality as possible while keeping a tiny physical profile. If is Convenient, it will be used.



Tiny Physical Profile

SSI

G.A.L. was designed to have a Tiny Physical Profile. You can run from a DVD or from a USB flash device without the user installing any actual components on the PC. How convenient is that? Now you don't have to lug around your laptop, you just boot a PC and you're off in your own, familiar and customized desktop environment.

Portable

SSI

G.A.L. is a portable OS based on SLAX Linux- a Linux Live derivative of Slackware Linux. Since **G.A.L.** is a Linux Live distribution, it can be used from a DVD, or USB Key. This gives you the ability to take your personal files with you as well as the entire environment needed to work.

Upgradeable

SSI

G.A.L. allows for easy upgrades. Currently, upgrades are accomplished by simply replacing the modules with the latest version module. A future wizard shall allow configurations and upgrades from the Internet directly.

Configurable

SSI

Portable Computing can be complicated. Every time you go to a new computer, the hardware is different and the options for each network are different. One of **G.A.L.**'s goals is to make configuration on each computer and network a snap to accomplish. There are some custom Wizards included to step you through Network configuration. In the future, additional Wizards for Audio and Video Assistance shall also be included.



Flexible

SSI

Flexibility is a key quality of **Guardian Angel Linux**. You can pick and choose from a wide array of Applications, Utilities, and Facilities. This flexibility is directly related to **G.A.L.**'s configurable nature- pick and choose what you want.

The **G.A.L.** Advantage: Compatible

SSI

G.A.L. works with almost any computer with USB or CD/DVDRom. USB 1.1 also works but booting takes about 5x longer than USB 2.0. You can boot directly off of your PC or you can run from within Microsoft Windows or Apple MacOSX. The applications we provide are Open Source and specifically picked to be cross platform compatible with Microsoft Windows and MacOSX, enabling you to share documents with friends, family and co-workers.

Proprietary drivers and applications should be available. We strive to include Video, Audio, and other hardware drivers so that your computing experience is the best it can be. Free Proprietary applications (like GoogleEarth) and Browser plug-ins (like Flash, Shockwave, and Java) are an essential part of the Web experience and **G.A.L.** makes it easy to install these resources.



Product: Guardian Angel Linux

The Secure Portable Computing Environment

SSI

- Scalable and dynamic software
- Easy to use
- Configurable and Multi-Vendor Compatibility
- Ubiquitous Security
- Rich in features
- Excellent Price and Value



G.A.L. Summary of Product Features

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General Features

- Linux Operating System (Kernel 2.6.20)
- KDE DeskTop
- Web Camera support
- Wired and Wireless Network support
- Bluetooth support
- Small, Portable, Fast
- Modular and Customizable
- Proprietary Drivers available

Security Features

- Verifiably Secure
- Open Standards
- OpenPGP/GPG
- SSL
- TrueCrypt Container and Partition Encryption/ dm-crypt and LUKS.
- Zfone
- OpenVPN, stunnel, S/WAN support
- Secure IM (Pidgin/OTR and Kopete/OTR)

Internet / Email

- Open Standards Based
- Firefox and Thunderbird
- Strong Encryption support (SSL/PGP)
- IMAP/POP3
- Secure Web Browsing
- Anti-phishing and Ad Blocking Plugins
- Anonymous Surfing via Tor and I2P

Videoconferencing, Telephony, and IM

- VoIP and Teleconferencing using SIP, H.323 and proprietary protocols
- Skype, Gizmo, Xten Softphone, Twinkle, Ekiga/MS NetMeeting
- AIM, Yahoo, MSN, MySpace, Jabber, IRC, ICQ support



G.A.L. Summary of Product Features

SSI

Multimedia Features

- Open Standard Formats supported
- Numerous Video and Audio CODECs available including avi mp3, ogg vorbis, wav, mp4

Office Features

- Open Office (MS Office file compatible)
- SunBird Shared Calendar
- PIM and PIM sync'ing

Community Features

- Open Source Developed
- Community Forum Support
- Community Driven
- Peer Reviewed
- Over 1000 additional Free Software packages available

Support Features

- Update Notification
- Update Wizard
- Free Community Support
- Paid Support

Future Features Anticipated

- We are always improving



G.A.L. Hardware Kit

WebCam, Networking, Audio and Video

SSI

- **USB Core Devices**
 - **USB Flash Drive**
 - **Audio Adapter and WebCam**
 - **Video Conferencing**
 - **Take and send snapshots**
 - **VoIP**
 - **VoiceMail and VideoMail**
 - **WAN, WLAN and Bluetooth Adapter**
 - **Ethernet 10/100BT LAN**
 - **802.11b/g WLAN**
 - **Bluetooth PAN**



G.A.L. Hardware Kit

WebCam, Networking, Audio and Video

SSI

- **USB XVGA Video**
- **InfraRed Networking**
- **Portable Printers**
- **Legacy Interfaces (Serial, Parallel, PATA)**
- **Additional Adapters**
 - **GPS**
 - **DVB-T**
 - **Video Capture**



Who can benefit from G.A.L.?

SSI

- Road Warriors
- Business Continuance and Disaster Recovery Staff
- Emergency Response Staff
- Schools/Students
- Internet Cafés
- Anyone on Travel
- Remote Location Communication (Ship to Shore)
- Everyone!

Our Commitment to Privacy and Customer Confidence

SSI

- Establish an environment consumer feels protected.
- Give consumer a place and way they do not have to provide personal or account information frequently to conduct transactions.
- Create an environment of trusted authentication with each transaction.
 - Provide secure bridge (appliance and key) between parties to a transaction.
 - Provide trusted connection (pipeline) between participating vendors and the customer's transaction request.
 - Verify the identity between the parties of the transaction.
 - Facilitate exchange of consideration for the transaction.



Feature Comparison

Other OS Offerings

SSI

Feature	Windows OS	Apple OS	G.A.L.
Desktop OS	XP Pro (\$199)	Family Edition (\$199)	G.A.L.(Free)
Virus Protection	Not Included	Not Included	ClamAV, VirusHammer ⁴
Site Blocker	Not Included	Not Included	MoBlock
Firewall	Included	Included	GuardDog, Kmyfirewall, IPTables
Multimedia Player and Framework	Windows Media Player ^t	QuickTime tm	Mplayer ¹ , Xine, VLC ¹ , nmm ¹ , gstream
Office Suite	MS Office tm	AppleWorks tm	OpenOffice ¹ and Koffice
Web Browser	Internet Explorer tm	Safari	Firefox ¹
Mail Client	Outlook tm Express	Apple Mail tm	Thunderbird ¹ and Enigmail ¹
PDF Viewer & Creator	Not Included	Included	XPDF
Compression Utility	WinZip/Included	gzip	gzip, zip, p7zip (lzma)
Instant Messenger	MSN Messenger tm	iChat	Pidgin ^{1,3} and Kopete ²
Photo Retouching Application	Not Included	iPhoto	The Gimp ¹
Music Player	Windows Media Player ^t	iTunes tm	Kplayer, Mplayer ¹ , Juk, Amarok, Totem
Sound Editor	Not included	Not included	Audacity ¹
Virtual Machine	Not Included	Not Included	VMPlayer ⁵ , qemu ¹
Vector based Drawing Program	Not Included	Not Included	Inkscape ¹
Calendaring Program	Not Included	iCal	Sunbird ¹
Web Development Suite	Not Included	Not Included	Quanta, KompoZer ¹
100's of free programs to be available by i	Not Included	Not Included	Included via Kommando-Installer
Encryption	Not Included	Not Included	PGP ¹ , TrueCrypt ³ , bcrypt
Secure IM, VoIP, File Containers, Teleconf	Not Included	Not Included	Pidgin/OTR ³ , Kopete/OTR zfone ¹ , Sk
Anonymous Networks	Not Included	Not Included	Tor, I2P, Tork, Vidalia
Remote and Encrypted Storage	Not Included	Not Included	sshfs, encfs, truecrypt ³
Downloader	Not Included	Not Included	Retriever ⁴ , Phex ⁴ , aria ² , Azureus ⁴
Price	\$527.00	\$219.00	Free

¹ Cross Platform compatible with Windows and Macintosh.

² Instant Messenger is compatible with MSN Messenger, Yahoo IM, AIM, ICQ, Napster, and more.

³ Windows Compatible.

⁴ Java Applet.

⁵ Free Commercial. Available via Kommando-Installer

